

Method for boost pressure control of an internal combustion engine

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Abstract

In the boost pressure control system there is generated, from the system deviation between a reference boost pressure and an actual boost pressure, a manipulated variable for an actuator that acts on the exhaust flow guided through the turbine of an exhaust-driven turbocharger. To allow the boost pressure control system to operate over a wide working range without allowing the control action to become too slow or allowing control overshoots to occur, the manipulated variable, or one or more other variable(s) constituting the manipulated variable, is/are transformed in a characteristics map into values such that after transformation, a linear correlation exists between the manipulated variable and the controlled variable.

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